इंटरनेट मानक

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"जानने का अधिकार, जीने का अधिकार"
Mazdoor Kisan Shakti Sangathan
"The Right to Information, The Right to Live"

"पुराने को छोड नये के तरफ"
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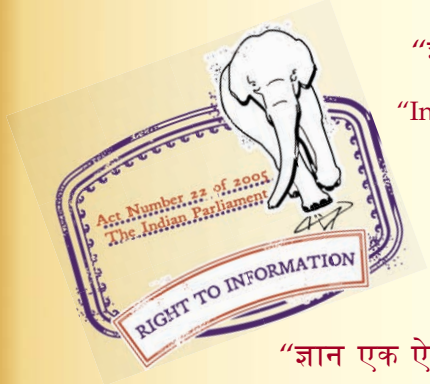
"Step Out From the Old to the New"

IS 5580 (1970): Chisels, Stille Pattern, Orthopaedic [MHD 2: Orthopaedic Instruments, Implants and Accessories]



"ज्ञान से एक नये भारत का निर्माण"
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"Invent a New India Using Knowledge"

"ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है"
Bhartṛhari—Nītiśatakam
"Knowledge is such a treasure which cannot be stolen"

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UDC 615·472·3

Indian Standard (Reaffirmed 2002)

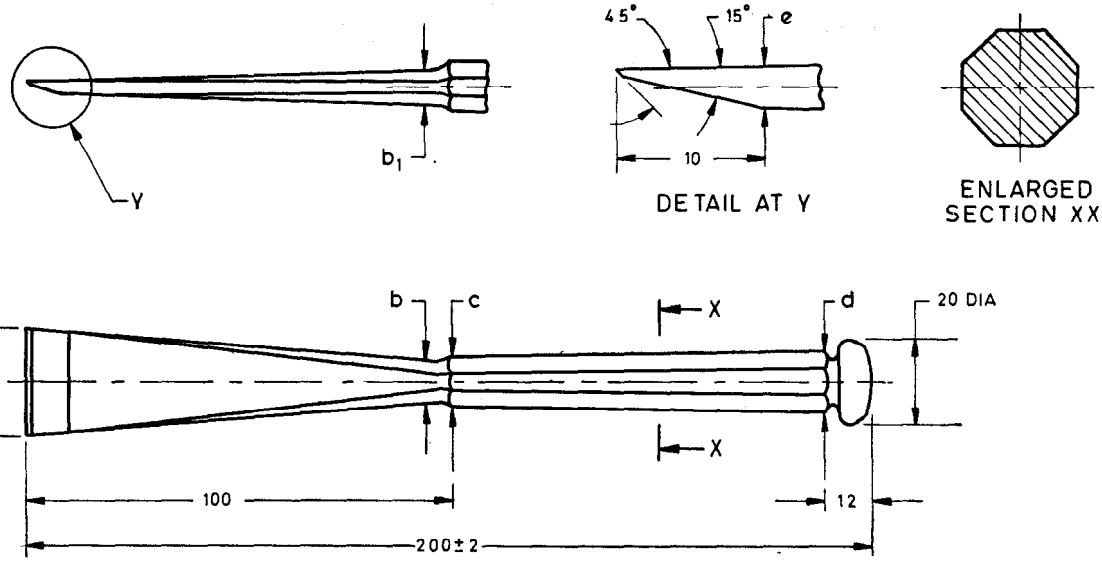
SPECIFICATION FOR CHISELS, STILLE PATTERN, ORTHOPAEDIC

1. Scope — Dimensions and requirements for Stille pattern chisels, used in orthopaedic surgery.

2. Material — Stainless steel conforming to Designation 30Cr13 of Schedule V of IS : 1570-1961* or stainless steel of the following composition:

Constituent	*Percent*
Carbon	0·35 to 0·45
Silicon	0·60 *Max*
Manganese	0·60 *Max*
Chromium	12 to 14
Nickel	0·60 *Max*
Sulphur	0·03 *Max*
Phosphorus	0·03 *Max*

3. Shape and Dimensions — As shown in Fig. 1.



a	*b*	b_1	*c*	*d*	*e*
6	5·0	5·0	8	10	1·3
12	6·0	6·0	10	12	2·5
18	7·0	6 0	11	13	3·0
24	8·0	7·0	12	14	3·5
30	9·0	8·0	12	14	4·0

All dimensions in millimetres.

FIG. 1 CHISEL, STILLE PATTERN

4. Requirements

4.1 *Workmanship* — All the surfaces of chisel shall be free from pits, burrs, cracks and other surface defects. The cutting edge of the instrument shall be square to the central line, properly sharpened and be free from burrs, feathers, nicks, and waviness. All the other edges shall be rounded.

4.2 *Finish* — The instrument shall be suitably passivated and finished smooth and bright.

4.3 *Heat Treatment* — Evenly hardened and tempered to 500 to 550 *HV*.

*Schedules for wrought steels for general engineering purposes.

Adopted 9 April 1970

Rs 3·00

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 1

Revised Price Gr 1

4.4 *Performance* — The chisel shall be held in one hand firmly with the cutting edge making an angle of 45° on to a piece of long hard and dry sheep bone. The bone shall be chipped off in small segments by chiselling using a 1-kg hammer. After 20 strokes the head shall not become mushroom shaped. The cutting edge shall not show any sign of damage or loss of cutting efficiency and the shank shall not show any deformation.

4.5 *Corrosion Resistance (Copper Sulphate Test)* — Scrub the sample with soap and warm water, rinse in hot water, and then dip in 95 percent ethyl alcohol. Dry the sample. Immerse in copper sulphate solution at room temperature for 6 minutes and wash off with fresh water or wet cotton wool. Make up the solution as follows:

Copper sulphate ($CuSO_4.5H_2O$)	4·0 g
Sulphuric acid (H_2SO_4) (sp gr 1·84)	10·0 g
Water (H_2O)	90·0 ml

No red stains or spots on the sample shall be allowed but dulling of the polished surface may be permitted.

5. Marking — Shall be legibly and indelibly marked with the manufacturer's name or initials or recognized trade-mark.

5.1 *ISI Certification Marking* — Details available from the Indian Standards Institution, New Delhi 1.

6. Packing — Shall be as agreed to between the purchaser and the supplier.

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